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MicroPatent Report

AMPLIFICATION OF GENE USING ARTIFICIAL TRANSPOSON

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[57] **Abstract:**

PROBLEM TO BE SOLVED: To amplify a desired gene on a chromosome by creating an artificial transposon having a medicine- resistant gene and a desired gene between both inverted repeats and capable of transferring in a specific bacterial cell and introducing the transposon into a cell and transferring the transposon onto the chromosome. SOLUTION: An artificial transposon having a structure inserting a desired gene comprising a gene which participates in biosynthesis of amino acid, e. g. drug-resistant gene such as a chloramphenicol-resistant gene or a tetracycline-resistant gene and an aspartokinase gene and/or a dihydropicolinic acid synthetase gene into inverted repeats derived from an insertion sequence of a coryneform bacterium and capable of transferring in the coryneform bacterium cell is created and the artificial transposon is introduced into the coryneform bacterium cell and transferred onto chromosome of the chromosome bacterium and a desired gene is introduced onto the chromosome and amplified to provide a coryneform bacterium used for industrial production of amino acid and nucleic acid.

[51] **Int'l Class:** C12N01509 C07H02104 C12N00121 C12P01308 C12N00912 C12Q00168 C12N01509 C12R00113 C12N00121 C12R00113 C12N00121 C12R00119 C12P01308 C12R00113 C12N00912 C12R00113 C12N00912 C12R00119